## IN THE CLAIMS

Please amend the claims as follows:

 (Previously Presented) A method for producing an image of a computer-simulated mannequin wearing a garment as defined by selected mannequin and garment parameter values, comprising:

generating objects corresponding to a representative mannequin and a garment placed in a simulation scene within a three-dimensional modeling environment;

simulating draping and collision of the garment with the representative mannequin within the simulation scene to generate a three-dimensional rendering frame of the representative mannequin wearing the garment;

constraining portions of the garment to reside within or outside of one or more shells defined around the representative mannequin in the rendering frame during the draping and collision simulation, wherein each shell is a three-dimensional construct designed to mimic the physical interaction of the garment with another garment; and,

rendering a two-dimensional image of the garment from the rendering frame and layering the rendered garment image upon a two-dimensional image of a selected mannequin.

- (Original) The method of claim 1 wherein the rendered image is used to form a visual image on a computer display device.
- (Original) The method of claim 1 further comprising generating rendering frames containing
  mannequin or garment objects as defined by selected parameter values by shape blending
  corresponding objects of previously generated rendering frames.
- 4. (Original) The method of claim 1 wherein the garment object comprises a plurality of garment panels that are connected together during the draping and collision simulation and further wherein the garment parameters include panel dimensions.

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(Original) The method of claim 1 wherein two-dimensional images are rendered from a rendering frame using a plurality of camera positions.

 (Previously Presented) The method of claim 1 further comprising storing the rendered garment image in a repository for containing a plurality of two-dimensional garment images.

7. (Previously Presented) The method of claim 1 further comprising generating multiple rendering frames for a plurality of different garments and layering a plurality of two-dimensional images of the different garments upon the selected mannequin.

8. (Previously Presented) The method of claim 7 wherein specific versions of the different garments are defined that reside within or outside of one or more shells during the draping and collision simulations that generate the multiple rendering frames and further wherein the versions of the different garments are selected in accordance with versioning rules that define which versions of a particular garment are permitted when combined with another particular garment.

(Previously Presented) The method of claim 7 wherein separate rendering frames are generated for each of the different garments.

 (Original) The method of claim 9 wherein the separate rendering frames are combined into a composite two-dimensional image using Z-coordinates of the objects.

11. (Original) The method of claim 9 wherein the garments contained in the separate rendering frames are rendered into separate two-dimensional garment images that are layered upon a two dimensional rendering of the mannequin to create a composite two-dimensional image.

12. (Original) The method of claim 11 further comprising layering the separate two-dimensional images on a two-dimensional image of the mannequin in accordance with a compositing rule that defines in what order specific garment images should be layered to thereby generate a composite two-dimensional image of the mannequin wearing the garments.

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13. (Original) The method of claim 1 further comprising mapping texture objects to the garment objects in rendering frames wherein the texture objects are selected from a group consisting of

colors, fabric patterns, buttons, collars, and ornaments.

14. (Original) The method of claim 1 wherein an image rendered from the rendering frame is

transmitted over a network to a display device.

15. (Original) A processor-readable storage medium having processor-executable instructions

for performing the method recited in claim 1.

(Cancelled)

17. (Cancelled)

18. (Previously Presented) The method of claim 16 further comprising constraining portions of

the garment to reside within or outside of one or more shells defined around the mannequin in each

rendering frame during the draping and collision simulation, wherein each shell is a three-

dimensional construct designed to mimic the physical interaction of the garment with another

garment.

19. (Previously Presented) A method for generating an image of a computer-simulated garment

suitable for combining into a composite image of a selected computer-simulated mannequin wearing

selected garments, comprising:

generating objects corresponding to a mannequin and a garment placed in a simulation scene

within a three-dimensional modeling environment;

simulating draping and collision of the garment with the mannequin in the simulation scene

to generate a three-dimensional rendering frame containing the mannequin wearing the garment;

constraining portions of the garment to reside within or outside of one or more shells defined

around the mannequin in the rendering frame during the draping and collision simulation, wherein

with another garment; and,

each shell is a three-dimensional construct designed to mimic the physical interaction of the garment

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rendering a two-dimensional garment image from the rendering frame.

- 20. (Original) The method of claim 19 further comprising rendering images of a plurality of versions of particular garments that are combinable into composite images in accordance with versioning rules, wherein a version of a garment is generated by constraining portions of the garment object within a rendering frame to reside within or outside of a particular shell defined around the mannequin.
- 21. (Previously Presented) The method of claim 20 further comprising generating rendering frames containing mannequin or garment objects as defined by selected parameter values by shape blending corresponding objects of one or more previously generated rendering frames.
- 22. (Original) The method of claim 19 further comprising mapping texture objects to the garment object in a rendering frame before rendering the garment into a two-dimensional garment image.
- 23 (Original) The method of claim 19 further comprising rendering from a rendering frame a plurality of garment images corresponding to a plurality of camera positions.
- 24. (Original) The method of claim 20 wherein a garment in the rendering frame is modified in accordance with a selected garment parameter value by modifying the parameter in the rendering frame and performing a partial further simulation to simulate motion and collision of the modified garment with the mannequin.
- 25. (Original) The method of claim 24 wherein the garment model comprises a plurality of garment panels that are connected together during the draping and collision simulation and wherein the garment parameters include panel dimension parameters.

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- 26. (Original) The method of claim 20 further comprising storing in a garment image repository garment images corresponding to a plurality of garment parameter values and created for a population of mannequins defined by a plurality of parameter values.
- 27. (Original) The method of claim 20 wherein the versions of particular garments that are rendered into garment images include versions differing by a fitting characteristic.
- 28. (Original) The method of claim 20 wherein the versions of particular garments that are rendered into garment images include versions differing by a wearing style.
- (Previously Presented) A system for generating images of a computer-simulated mannequin wearing a garment as defined by selected mannequin and garment parameter values, comprising:

a user interface by which a user selects a mannequin and one or more garments to be worn by the mannequin, wherein the mannequin and garments selected may be further defined by specific mannequin and garment parameter values;

a three-dimensional modeling environment for generating objects corresponding to a representative mannequin and a garment placed in a simulation scene and for simulating draping and collision of the garment with the mannequin within the simulation scene to generate a three-dimensional rendering frame of the mannequin wearing the garment; means for constraining portions of the garment to reside within or outside of one or more shells defined around the representative mannequin in the rendering frame

during the draping and collision simulation, wherein each shell is a three-dimensional construct designed to mimic the physical interaction of the garment with another garment; and,

means for rendering a two-dimensional image of the garment from the rendering frame and layering the rendered garment image upon a two-dimensional image of the selected mannequin.

30. (Previously Presented) The system of claim 29 further comprising means for layering a plurality of two-dimensional garment images upon the two-dimensional image of the selected mannequin, wherein each garment image is rendered from a rendering frame generated by constraining portions of a selected garment to reside within or outside of one or more shells defined

around a representative mannequin in the rendering frame during the draping and collision simulation, and wherein each shell is a three-dimensional construct designed to mimic the physical interaction of the selected garment with another garment.

31. (Previously Presented) The system of claim 30 wherein the plurality of two-dimensional garment images for layering upon the selected mannequin image are selected in accordance with versioning rules that define which versions of a particular garment are permitted when combined with another particular garment.

## (Canceled)

- 33. (Previously Presented) The system of claim 32 further comprising means for constraining portions of the garment to reside within or outside of one or more shells defined around the mannequin in each rendering frame during the draping and collision simulation, wherein each shell is a three-dimensional construct designed to mimic the physical interaction of the garment with another garment.
- 34. (Previously Presented) A system for displaying a selected computer-simulated mannequin wearing a selected garment, comprising:

a user interface by which a user selects a mannequin and one or more garments to be worn by the mannequin, wherein the mannequin and garments selected may be further defined by specific mannequin and garment parameter values;

a repository containing a plurality of two-dimensional garment images and mannequin images as defined by specific parameters;

wherein each two-dimensional garment image in the repository is generated by:

generating objects corresponding to a representative mannequin and a garment placed in a simulation scene within a three-dimensional modeling environment,

simulating draping and collision of the garment with the representative mannequin within the simulation scene to generate a three-dimensional rendering frame of the representative mannequin wearing the garment. constraining portions of the garment to reside within or outside of one or more shells defined around the representative mannequin in the rendering frame during the draping and collision simulation, wherein each shell is a three-dimensional construct designed to mimic the physical interaction of the garment with another garment, and

rendering a two-dimensional image of the garment from the rendering frame; and,

a compositing rule interpreter for displaying the two-dimensional images of user-selected garments and of a selected mannequin in a layered order dictated by compositing rules.

- 35. (Previously Presented) The system of claim 34 wherein the garment images contained in the repository include images of different versions of garments, wherein different versions of a particular garment are combinable with specific other garments.
- 36. (Previously Presented) The system of claim 35 further comprising a versioning rule interpreter for choosing among versions of the garment images for displaying in accordance with versioning rules that define which versions of particular garments are permitted when combined with another particular garment.
- 37. (Original) The system of claim 35 wherein the compositing rule interpreter displays two-dimensional images of versions of user-selected garments chosen by the versioning rule interpreter and of a selected mannequin in a layered order dictated by the compositing rules.
- 38. (Previously Presented) The system of claim 34 wherein the repository includes garment images rendered from rendering frames generated by shape blending corresponding objects of previously generated rendering frames.
- (Original) The system of claim 34 wherein the mannequin parameters include a parameter corresponding to a body measurement.
- 40. (Original) The system of claim 34 wherein the mannequin parameters include a parameter designating selection of a particular mannequin from a population of mannequins.

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- 41. (Original) The system of claim 34 wherein the garment parameters are selected from a group consisting of dimension, color, and style.
- 42. (Original) The system of claim 34 wherein the plurality of two-dimensional garment and mannequin images are rendered from a plurality of selectable camera angles.
- 43. (Original) The system of claim 34 wherein the user interface permits selection of versions of particular garments that are rendered into garment images that exhibit a particular wearing style.
- 44. (Previously Presented) A system for displaying a selected computer-simulated mannequin wearing a selected garment, comprising:

a user interface by which a user selects a mannequin and one or more garments to be worn by the mannequin, wherein the mannequin and garments selected may be further defined by specific mannequin and garment parameter values;

a repository containing a plurality of two-dimensional garment images and mannequin images as defined by specific parameters;

wherein each two-dimensional garment image in the repository is generated by:

generating objects corresponding to a representative mannequin and a garment placed in a simulation scene within a three-dimensional modeling environment,

simulating draping and collision of the garment with the representative mannequin within the simulation scene to generate a three-dimensional rendering frame of the representative mannequin wearing the garment.

constraining portions of the garment to reside within or outside of one or more shells defined around the representative mannequin in the rendering frame during the draping and collision simulation, wherein each shell is a three-dimensional construct designed to mimic the physical interaction of the garment with another garment, and

rendering a two-dimensional image of the garment from the rendering frame; and,

means for displaying the two-dimensional images of user-selected garments and of a selected mannequin in a layered order determined from depth information contained in the simulation scene. Title: SYSTEM AND METHOD FOR DISPLAYING SELECTED GARMENTS ON A COMPUTER-SIMULATED MANNEQUIN

45. (Original) The system of claim 44 wherein the plurality of two-dimensional garment and mannequin images are rendered from a plurality of selectable camera angles.